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September 30, 1997

Mr. Stanley F. Radon
Senior Engineering Geologist
Division of Solid and Hazardous Materials - Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: **Status Report of Ground-Water Collection and Treatment System and Storm Water Management**
Olin Chemicals Facility, Niagara Falls, NY

Dear Mr. Radon:

The following is a summary of the activities performed from the period of September 15 through September 26, 1997. This status report covers the tenth and eleventh weeks of construction activities for the project.

TASKS COMPLETED OR IN PROGRESS

Building 73 Preparation:

- The final portion of the concrete secondary containment curb was installed.
- An opening in the wall on the south side of Bldg. 73 was made, and the lintel for the air inlet to the air stripper was installed.
- Dirt and debris were removed from the interior of the clarifier tank.

Storm-Water Main Installation:

- Four-inch HDPE piping was installed at a railroad switch for stormwater drainage and tied into catch basin STM-28.

Potable Water Line:

- Installed safety showers, eyewashes, and hose bibs with galvanized steel piping from the copper main inside Bldg. 73.
- Installed the backflow preventer and flow meter at the tie-in to the city potable water supply. The Hot Box assembly was installed and bolted to the concrete foundation.

Site Grading:

- Areas were prepared for paving by excavating to design grades, sawcutting edges of the existing asphalt, sweeping existing concrete areas, and proof-rolling "roll-and-crush" gravel.
- In the area south of Bldg. 73, a pulvarizer attachment for a backhoe was used to break excavated concrete and asphalt to sizes suitable for backfilling. The smaller pieces were then combined with excavated soils and spread across the area with a dozer. A 20-ton vibratory roller was used to compact the material in two separate lifts.

Site Paving:

- Installed both binder layer and top layer of asphalt to the area around building #1 and on the trench between STM-30 and STM-31.
- Installed top layer of asphalt to area south of building #1 and to the area around STM-27.
- Installed binder layer to areas north of building 73.
- Additional paving is in progress.

Mechanical:

- Leak detection assemblies were installed on nine of the pumping wells (all except PR-1).
- The air stripper was set in place, leveled, and anchored to the floor.
- Completed welding, piping, and steel work for the inside of the clarifier tank. Installed the 6" HDPE overflow collection piping ring and attached it to the steel supports.
- Installed the stainless steel manifold and influent piping from the recovery wells into the clarifier tank.
- Installed sump pumps and CPVC piping from the building sump into the containment sump; and from the containment sump into the clarifier tank.
- Installed several blind flanges on the clarifier tank.
- Installed 6-inch CPVC piping from the second stage pH adjustment tank into the air stripper.
- Installed 8-inch stainless steel discharge piping from air stripper into sewer inlet.
- Installed CPVC drainage valves at the bottom of each pH adjustment tank .
- Installed non-shrink grout pads under each pH adjustment tank, the air stripper, and under several piping supports.
- Installed ductwork from the clarifier tank and from each pH adjustment tank.
- Installed 1-inch ball valve for DNAPL drawoff and 6-inch ball valve for tank drainage on the clarifier tank
- Pumps, 1-1/4 inch stainless steel piping, pitless adapters, and level transmitters were installed in each recovery well. For the passive relief wells (except PR-1), the pitless adapters with 1-1/4 inch stainless steel riser piping were installed.
- The duct heater and inlet louver for the air stripper intake were installed in the opening in the wall of Bldg 73.
- The pH probes were installed in the pH adjustment tanks.

Well Protection:

- Installed 5'x5' concrete pads with 4' high protection posts at each well.

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Date: 9-30-97

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Bill: Here is the latest status report for activities at Olin-Niagara. Startup of the system will take place in the next few weeks.

- Steve